



- (c) How mapping the data warehouse to a multiprocessor architecture is done?

**3** Attempt any **two** of the following :

- (a) What is on-line transaction processing (OLTP)? Describe the evolution of OLTP. What are the critical features of OLTP systems?
- (b) Describe different Reporting and Query Tools and Applications.
- (c) How Artificial Intelligence is used in Data warehousing. Explain with suitable examples.

**4** Attempt any **four** of the following :

- (a) What is data mining? Describe the evolution of data mining.
- (b) What is difference between verification and discovery?
- (c) What are advantages of data mining? Explain.
- (d) What are non linear regression method? Give two examples.
- (e) What are technologies used in data mining?
- (f) What do you mean by decision trees? Explain.

**5** Attempt any **two** of the following :

- (a) Give E.F. Codd's 12 Guidelines for OLAP.
- (b) What are genetic algorithms? Explain taking one algorithm.
- (c) Discuss Data visualization with reference to Data Mining.